

# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD

STEAMER/TANKER, ~~SAILER~~ RINCON HILLS

WITH/ WITHOUT TIMBER DECK CARGO

Nationality Canadian

Builders' Name and No. of Ship

MARINSHIP Corporation

Port of Registry Montreal

Sausalito, Cal.

Official Number 179219

Owners Deep Sea Tankers Limited,

Gross Tonnage 10635

25 Adelaide Street East, Toronto, Ontario.

Date of Build 12-1944

Port and Date of survey Portland, Oregon 12/48

Name of Surveyor S. McLean- B. Thibadeau

Particulars of Classification B.S. (Tanker)

Names of Sister Ships All T2 Tankers

Type of Superstructures Poop, bridge and forecastle

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

TROPICAL FRESH WATER LINE above centre of disc	15 $\frac{3}{4}$ "	Corresponding Freeboard	9'-2 $\frac{3}{4}$ "
FRESH WATER LINE " " "	8 $\frac{1}{4}$ "	" "	7'-11"
TROPICAL LINE " " "	7 $\frac{1}{2}$ "	" "	8'-6 $\frac{1}{2}$ "
WINTER LINE below " "	7 $\frac{1}{2}$ "	" "	8'-7 $\frac{1}{4}$ "
WINTER NORTH ATLANTIC LINE " " "	12 $\frac{1}{2}$ "	" "	9'-10 $\frac{1}{4}$ "
		" "	10'-2 $\frac{1}{4}$ "

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard	
FRESH WATER " " " "		" "	
TROPICAL " " " "		" "	
WINTER " " below " "		" "	
WINTER NORTH ATLANTIC " " " "		" "	

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

for Chief Surveyor

Passed at a meeting of the Canadian Committee of the British Corporation Register of Shipping and Aircraft

on the March 23, 1949.

*E. Russell Macmillan*  
Secretary  
Canadian Committee

Reported at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the



© 2020

Lloyd's Register  
Foundation

003659-003670-00381/9



B.P.

## COMPUTATION OF FREEBOARD

Length on summer load line 503'-0" Moulded Breadth 68'-0" Moulded Depth 39'-3" Depth of Keel

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth

Tons

Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} = \frac{24416 \times 35}{503 \times 68 \times 33.36} = .748$ 

Displacement and tons per inch immersion in salt water at summer load line

Moulded depth 39.25

Deduction for Fresh Water  $\frac{\Delta}{40 \times 1} = \frac{21910}{40 \times 67} = 8\frac{1}{4}$  inches

Stringer Plate .08

Round of Beam Correction

Sheathing on exposed deck  $T \left( \frac{L-S}{L} \right)$  -

Ships Round of Beam 18.50 inches

Rise of floor (in sailers) -

Standard Round of Beam  $\frac{B \times 12}{50} = \frac{68 \times 12}{50} = 16.32$ 

Depth for Freeboard (D) 39.33

Difference 50 2.18

Table Depth 503/15 = 33.55

Restricted to

Depth Correction 5.78 x 3 = 17.34

Correction  $\frac{\text{Difference}}{4} \times \left( 1 - \frac{E}{L} \right) = \frac{2.18}{4} \times .6 = .33$ 

If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop	107.57	+2.63	8'-0" to 8'-9"			110.20	Standard Height of Superstructure
Raised Quarter Deck							" " R.Q.D.
Bridge	35.75	+2.87	8'-0"			38.62	Percentage covered S/L = $\frac{201.83}{503} = .401$
		A					" " E/L = $\frac{201.83}{503} = .401$
Forecastle	52.63	+ .75	9'-6" to 13'-7"			53.01	" from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge less than .2L if required =
" Forward							Deduction = .311
Tonnage Opening Aft							Percentage from Table for Tankers (or Timber ships) =
" " Forward							Deduction = 42 x .311 = 13.06
Totals		excess aft added				201.83	

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	16.00	+15.5	31.50	1	31.50
$\frac{1}{6}$ L from A.P.	2.25	+ .75	3.00	4	12.00
$\frac{1}{3}$ L from A.P.	0		-	2	-
Amidships	-		-	4	-
$\frac{1}{3}$ L from F.P.	0		-	2	-
$\frac{1}{6}$ L " "	5.44		5.44	4	21.76
F.P.	18.00		18.00	1	18.00
				18	83.26

Mean Actual sheer aft =

Mean Actual sheer forward =

Length of enclosed superstructure forward of amidships =

Length of enclosed superstructure aft of amidships =

Sheer Correction = Difference X  $\left( .75 - \frac{S}{2L} \right) = 25.52 \times \left( .75 - \frac{.39}{2} \right) = 14.18$ 

Effective Mean Sheer = 4.625

Standard " " .05L + 5 = 30.15

Difference 25.52

If limited on account of midship superstructure = -

" to maximum allowance of 1 1/2 ins. per 100 ft. = -

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient = 88.19 x  $\frac{.748 + .68}{1.36} = 95.52$  DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		Sailer, Tanker, Steamer	Timber
Depth correction	17.34			Depth to Freeboard Deck in feet 39'-4"	
Deduction for superstructures		13.06		Summer Freeboard in feet 9'-2 3/4"	
Sheer correction	14.18			Moulded Draught (d) 30'-1 1/4"	(d1)
Round of Beam correction		.33		Addition for Keel	
Correction for thickness of deck amidships				Extreme draught 30'-2"	
Other corrections, scantlings, etc.					
	31.52	13.39	+ 18.13	Deduction for Tropical and addition for Winter freeboard d/4 = 7 1/2" ins.	

Summer Freeboard in inches = 110.65

Additional allowance for superstructures on

Timber carrying ships = -

Summer Timber Freeboard in inches =

Addition for Winter North Atlantic (if required) = 12 1/2 ins.

Deduction for Tropical Timber Freeboard d/4 = ins.

Addition for Winter " " d/3 = ins.

" " N.A. Timber Freeboard (if required) = ins.



# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD CONDITIONS OF ASSIGNMENT

SHIP'S NAME **RINCON HILLS**OFFICIAL NUMBER **179219**Nationality and Port of Registry **Canadian, Montreal**

## PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	-	17.9 #	9'4" x 7.9 # FP	2' -4"	welded	2 @ 5'0" x 2'4"	1' -6"	8' -0"
R.Q.D. "						1 - 5'1 7/8" x 4'1 3/8"	1' -6 1/2"	8' -0"
Bridge Aft Bulkhead	-	12.2 #	4'3" x 7.2 # 1A	2' -6"	"	2 @ 5'0" x 2'4"	1' -6"	8' -0"
" Forward "		18.0 #	9'4" x 7.9 # FP	2' -6"	"	2 @ 5'0" x 2'4"	1' -6"	8' -0"
Forecastle Bulkhead	-	12.2 #	4'3" x 7.2 # 1A	2' -6"	TOPS BKT? BOTTOM FREE	1 @ 6'0" x 4'1 3/8" WITH 4 TD(S) 1 @ 5'0" x 2'4"	1' -6"	9' -11"
Trunk, Aft								
" Forward								
Exposed Machinery Casings on								
Freeboard or R.Q. Decks								
Exposed Machinery Casings on								
superstructure decks								
Machinery Casings within Super- structures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships								

## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	2- W.T Hinged steel doors-manipulated both sides
R.Q.D. "	( W.T. hinged steel doors (1P& 1S) " "
Bridge Aft Bulkhead	( 1 bolted plate sliding door-hookbolts manipulated externally
" Forward "	W.T. hinged steel doors (1P&1S) manipulated both sides
Forecastle Bulkhead	x ( 1 bolted plate-hook bolts manipulated externally with W.T.
Exposed Machinery Casings on	( steel door inset (Stbd side) - 1 WT hinged steel door (P)
Freeboard or R.Q. Decks	manipulated both sides
Exposed Machinery Casings on	
superstructure decks	x inset W.T. door manipulated both sides
Machinery Casings within Super- structures not fitted with Cl. 1 Closing Appliances	
Deck houses on flush deck ships	

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well			open rails		
Forward Well					

State fore and aft position and height above  
deck to bottom of port, for each port

After Well

Forward Well

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks

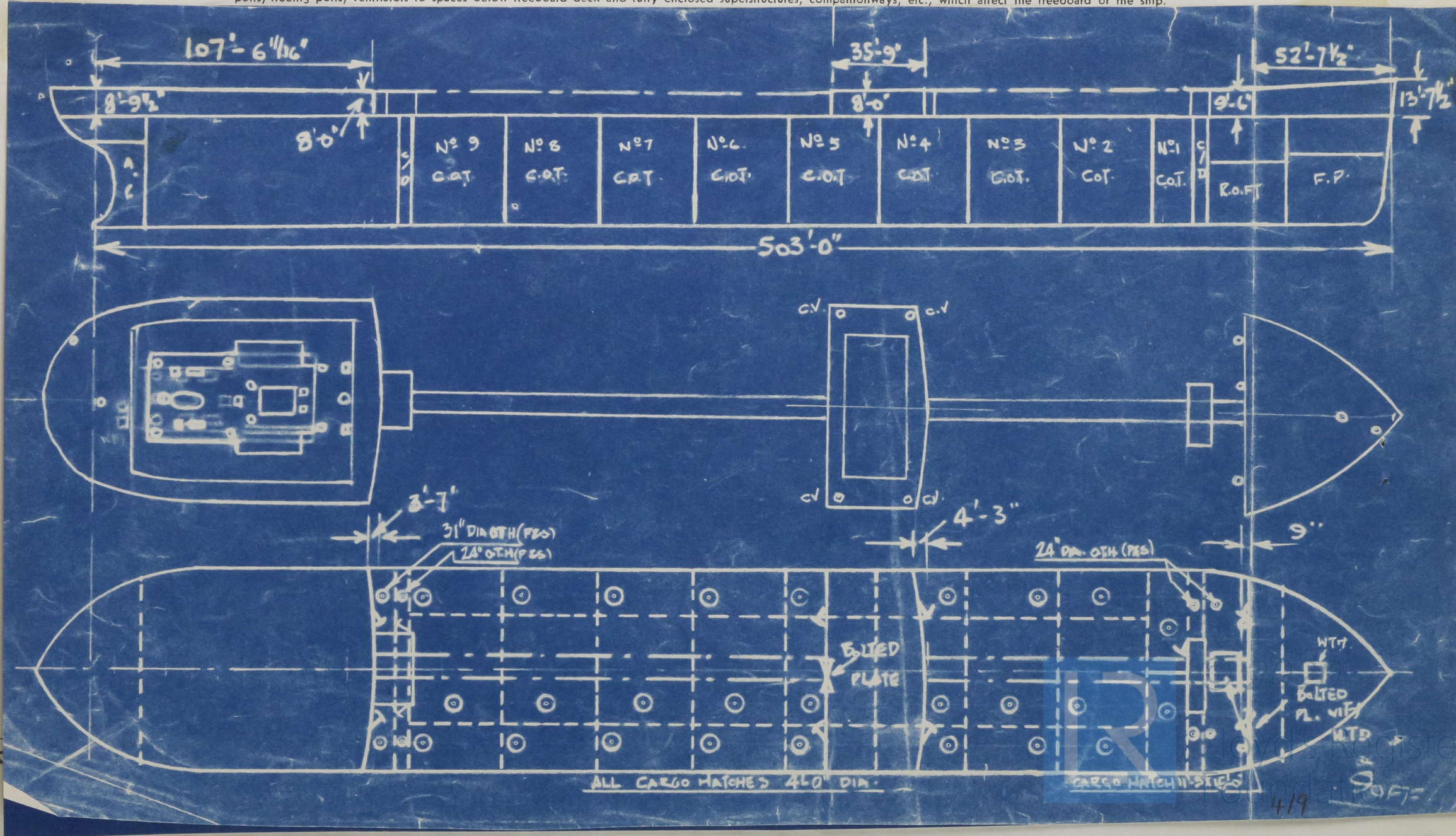


© 2020

Lloyd's Register  
Foundation



Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



4/19



Superstructure Deck

Freeboard Deck



© 2020

Lloyd's Register  
Foundation



# PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	dry cargo	reserve oil	for'd	26 cargo	main oil	upper deck	after
	hatch	bunkers (1P&1S)	cofferdams (1P&1S)	oil hatches	bunkers (1P&1S)	in fosse 1 G1	cofferdame (1P&1S)
Dimensions of Hatchway	11'-3"x15'0"	27" dia.	24" dia.	4'-0" dia.	30" dia.	3'0" x 3'0"	24" dia.
COAMINGS	Height { steel { deck	30"	24"	24"	30"	30"	24"
	Thickness { sides { ends	7/16"	7/16"	7/16"	9/16"	7/16"	7/16"
	Stiffeners	3 1/2" x 3/8 Fb.					
	Brackets or Stays	Fld. Pl.					
HATCH BEAMS	Number	①					
	Spacing						
	Scantling and Sketch						
	Bearing Surface and thickness of carriers or sockets						
FORE AND AFTERS	Number						
	Spacing						
	Unsupported lengths						
	Scantling and Sketch						
HATCH COVERS	Bearing Surface and thickness of carriers or sockets						
	Material	W.T. steel	O.T. steel	W.T. steel	O.T. steel	W.T. steel	W.T. steel
	Thickness						
	How Fitted	hinged	hinged	hinged	hinged	hinged	hinged
	Bearing Surface						
Spacing of Cleats	wing nuts	wing nuts	wing nuts	strongback & wing nuts	strongback & wing nut	wing nuts	wings
Number of Tarpaulins							

Are tarpaulins in good condition and in accordance with rule requirements?

Are lashings provided in accordance with rule requirements?

Are wood fore and afters steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?



© 2020

Lloyd's Register Foundation



Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

opening 1 P & 1S 6'-0" x 2'-0" - 6" CMG- hinged steel cover

" 1 P & 1S 2'-0" x 2'-0" 6" " Hinged steel cover

Escape scuttle 21" x 21" with hinged steel cover-3" coaming

6-30" dia. cowl vents 11'-6" high welded to deck

2-30" x 30" intake vents

Engine room skylight fitted with hinged steel flaps

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

none

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

forward and aft pump rooms- steel stiffened with W.T. steel hinged doors manipulated both sides- 18" sills.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Forecastle deck 1-12" CV 6" coaming welded to deck- WT hinged steel cover

" " 1-12" MV 3' coaming welded to deck- screw down type

Upper deck 1-12" CV welded to forecastle Bhd- W.T. Hinged steel cover

1-15" CV 10' coaming welded to deck W.T. hinged steel cover

2-15" CV 10' coaming welded to deck at Pumproom W.T. hinged steel cover

1-8" CV 10' coaming welded to deck " " " "

2-24" CV 27'6" coaming welded and stayed on Kingports to aft pump room

Bridge deck- 4-12" CV 3' coaming welded to deck-WT hinged steel cover

Poop deck 1-10 GNV 3' coaming welded to deck-WT hinged steel cover

1-18" GNV 3' coaming welded to deck-WT hinged steel cover

1-9" x 14" GNV 3' coaming welded to deck- WT hinged steel cover

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

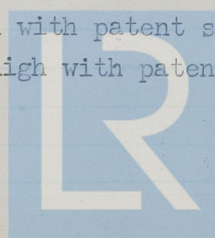
Upper deck 4-6" air pipes from main and reserve O.F. bunker 9'-0" with patent safety fitting

" 4-2½" air pipes from cofferdams 3'-6" " "

" 4" air pipes from all cargo tanks led up masts- with automatic pressure and vacuum valves at gangway level.

Forecastle deck- 1-4" air pipe 4' high with patent safety fitting

Poop 1-4" air pipe 3'-6" high with patent safety fitting



Lloyd's Register  
Foundation



Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

4-4", 5-2" & 6-1½" fitted in engine room with non-return brass check valves at shipside and shut off gate valves

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

15" dia. side scuttles with hinged deadlight permanently fitted to  
poop accommodation

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

none below freeboard deck

Guard Rails on freeboard and superstructure decks (state type and where fitted)

2- pipe rails with flat bar stanchions fitted on upper, forecastle and poop decks.

Bridge deck fitted with 5/16" steel bulwark.

Gangways and Lifelines

Fore and aft gangway (Permanent) fitted between poop, bridge & forecastle

Gangway, Cargo and Coaling Ports in sides of ship



© 2020

Lloyd's Register  
Foundation



SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



© 2020

Lloyd's Register  
Foundation